

**FACILITY STATUS CHANGE FORM**

<b>Date Submitted:</b> Feb 9, 2011	<b>Area:</b> 100-N Area	<b>Control #:</b> D4-100-N-0003 rev.1
<b>Originator:</b> David Warren	<b>Facility ID:</b> 181-NC River Water Sample Shack	
<b>Phone:</b> 539-6040	<b>Action Memorandum:</b> 100-N Ancillary Facilities	

**This form documents agreement among the parties listed below on the status of the facility D&D operations and the disposition of underlying soil in accordance with the applicable regulatory decision documents.**

**Section 1: Facility Status**

- ☒ All D4 operations required by action memo complete.
- ☐ D4 operations required by action memo partially complete, remaining operations deferred.

**Description of Completed Activities and Current Conditions:**

This Facility Status Change Form (FSCF) presents previously submitted information, and additional information as necessary, that documents completion of D4 activities at Hanford Facility 181-NC River Water Sample Shack. The previously submitted information, "D4 Project Soils and/or Below Grade Structures Completion Form, 181-NC River Water Sample Shack" (Document Number D4-100N-0003) does not conform to a current project requirement that specifies "each completed form must be signed by the DOE-Richland Operations Office (RL) and lead regulator project manager." This FSCF contains those required signatures.

**Description of Deferral (as applicable):**

None

**Section 2: Underlying Soil Status**

- ☒ No waste site(s) present. No additional actions anticipated.
- ☐ Documented waste site(s) present. Cleanup and closeout to be addressed under Record of Decision.
- ☐ Potential waste site discovered during D4 operations. Waste site identification number <to be> assigned.
- Cleanup and closeout to be addressed under Record of Decision.

**Description of Current/As-Left Conditions:**


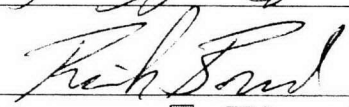
See attachment 1: D4 Project Soils and/or Below Grade Structures Completion Form, 181-NC River Water Sample Shack

**Identification of Documented Waste Site(s) or Nature of Potential Waste Site Discovery (as applicable):**

See attachment 1: D4 Project Soils and/or Below Grade Structures Completion Form, 181-NC River Water Sample Shack

**Section 3: List of Attachments**

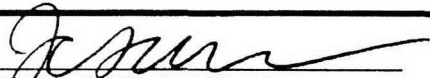
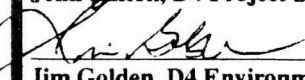
Attachment 1: D4 Project Soils and/or Below Grade Structures Completion Form, 181-NC River Water Sample Shack

Rudy Guercia		2/16/11
DOE-RL		Date
Rick Bond		3/1/11
Lead Regulator	<input type="checkbox"/> EPA <input checked="" type="checkbox"/> Ecology	Date

100-N D4 Project Facility Completion Form

**Attachment 1**

**D4 Project Soils and/or Below Grade Structures Completion Form  
181-NC River Water Sample Shack**

<b>Date Submitted:</b> 4/19/06 <b>Originator:</b> J. W. Golden <b>Phone:</b> 521-0877	<b>Associated Building/ Facility:</b> 181NC River Water Sample Shack  <b>Associated Action Memorandum:</b> Action Memorandum 100N Ancillary Facilities	<b>Document Number:</b>  <u>D4-100N-0003</u>
<b>This form, documents that the soil and/ or below grade structures meet the requirements of the Associated Action Memorandum.</b>		
<b><u>Basis for Determination (attach pertinent documentation):</u></b>		
<p>The D4 activities for 181-NC have been completed in accordance with the requirements of the action memorandum.</p> <p>There are no indications of releases of hazardous materials from the facility; this determination was based on documented project knowledge of the facility operation and data collected during the demolition of the facility. The basis for this determination is supported as follows:</p> <ul style="list-style-type: none"><li>• The area was not a previously posted as a radiological area nor was the area previously identified within WIDS.</li><li>• Post demolition radiological surveys following demolition did not result in the area being managed as a radiological area.</li><li>• There were no documented spills of hazardous/ mixed waste. The only suspect hazardous material of concern during demolition was asbestos.</li><li>• Process history.</li></ul> <p>Detailed information pertaining to waste profiles, radiological survey data and sampling data are contained within the attached demolition summary report (CCN#12719).</p>		
 <b>John Fulton, D4 Project Director</b>	 <b>Jim Golden, D4 Environmental Project Lead</b>	<u>4-24-06</u> Date <u>4/20/06</u> Date

## ES/FR Data Transfer Checklist

- ☒ Reviewed Facility Operation and WIDS?  
yes. See attached Post demolition report.
- ☒ Reviewed Waste Data?  
yes. Profile # HGPOOL was used.
- ☒ Reviewed Rad Data?  
Reviewed the attached Post demo report, non rad area.
- ☒ Reviewed Sample Data?  
Only sample data was for asbestos, to support waste characterization / H&S.
- ☒ Functional Review?  
yes.
- ☒ GPS Data Provided?  
yes. see attached post demo report.
- ☒ Items Discovered During Demolition Provided?  
Nothing out of the ordinary was discovered.
- ☒ Rad Survey Data Provided?  
See RSR-IFSM-05-0364
- ☒ Waste Profile Numbers Provided?  
HGPOOL
- ☐ CVP Provided?  
NA

**WCH** Washington  
Closure  
Hanford

**Interoffice Memorandum**

---

127182

TO: R. R. Nielson X5-50

DATE: April 25, 2006

COPIES: See Below

FROM: *DB Encke*  
D. B. Encke

Records and Document Control H0-30

100 Area D4 Characterization  
X5-50/373-9733

SUBJECT: Post-demolition Summary Report for the 181-NC River Water Sample Shack

Attached is the Post-demolition Summary Report of the 181-NC River Water Sample Shack at 100-N Area. This report documents the final status of the immediate ground area at the building site after completion of D4 activities. The information in this report includes references to radiological and industrial hygiene surveys, waste profiles used to ship debris to the ERDF, and a status of WIDS sites associated with 181-NC.

This is a revised release of the original post-demolition document. In the original it was stated that the concrete slab was left in place, when in fact it was removed. The soil under and around the concrete slab was however left in place.

Please contact myself at 373-9733, or James Crocker at 376-4058, if you have any questions on this information.

DBE:mkb

Attachment: Post-demolition Summary Report for the 181-NC River Water Sample Shack

Copies (all w/a):

G. J. Borden X7-85

J. W. Crocker X5-50

R. G. Egge X5-50

D. B. Encke X5-50

G. J. Gibbons X5-50

J. W. Golden L1-04

I. D. Jacques L1-04

C. R. Watson X5-50

P. K. Wells X5-50

## **Post Demolition Summary Report for the 181-NC River Water Sample Shack April 2006**

### **Site Information**

The 181-NC River Water Sample Shack was used to sample river water. It supported water treatment processes at 100-N. The building was constructed of steel siding and plywood, installed on a concrete pad, and had a rectangular footprint measuring 7 feet by 12 feet.

A Characterization Summary Report (CSR) was developed for 181-NC (WCH, 2005).

Demolition activities occurred on March 23, 2006 and March 27, 2006.

### **Radiological and IH Scoping Surveys**

Radiological and Industrial Hygiene (IH) scoping surveys were performed on 181-NC prior to demolition. Results of the radiological surveys are documented in RSR-IFSM-05-0364.

An industrial hygiene baseline survey was conducted in the fall of 2005.

### **Waste and other Characterization Samples**

Samples were taken of yellow fibrous insulation inside the walls to check for asbestos. Results were negative. See Attachment 1, Summary of Analytical Results.

No other samples were taken at 181-NC.

### **Waste Profiles**

Waste profile HGP001 was used to disposition generated waste at the ERDF.

### **Post Demolition Radiological Survey**

181-NC was not a radiologically controlled building, therefore, there were no release surveys performed. Routine spot checks were made during building loadout and no contamination was found.

### **Civil Survey Information (GPS, including elevation)**

A GPS civil survey was performed on 181-NC prior to demolition. This survey located the corners of the 181-NC building, and the two nearest corners of the 181-N Low Lift Pump House. A copy of this survey report is provided as Attachment 2.

### **Status of WIDS Sites Associated with Building Site**

No WIDS sites are directly associated with 181-NC. No WIDS sites in the vicinity of 181-NC changed status during the course of D4 activities at 181-NC. More information on WIDS sites can be found on the Environmental Information System WIDS web site.

### **Anomalies Discovered during Demolition**

There were no anomalies encountered during D4 activities at 181-NC. There were no indications of spills or releases based on field observations, historical information, and process history.

## **Post Demolition Summary Report for the 181-NC River Water Sample Shack April 2006**

### **Final Building Status**

Subsequent to demolition, the GPERS survey was completed to identify potential beta and gamma contamination on the 181-NC pad and ground around 181-NC. The GPERS survey found no readings that exceeded background levels by two or more times. This negative result allowed the D4 crew to leave the soil around and under the 181-NC slab in place.

There was no deferral to the Field Remediation project because there are no WIDS sites associated with 181-NC, and the GPERS surveys did not show any radiological contamination.

The demolished 181-NC structure was sent to ERDF.

### **Documentation**

Documents referenced in this summary are available through the Document Control organization. Additionally, photographs of the 181-NC River Water Sample Shack prior to, during, and following demolition activities are maintained in the field files of D4's Characterization group.

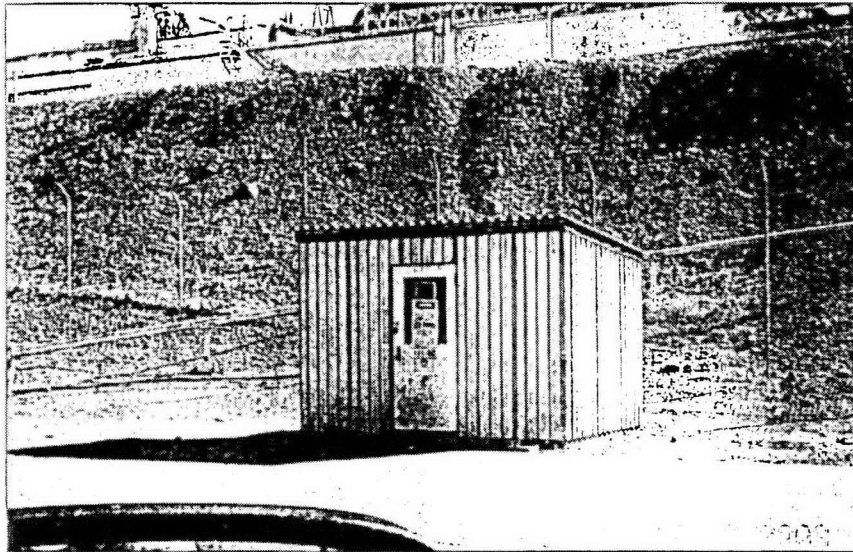
### **References**

WCH, 2005, *Characterization Summary Report for the 151-N & 153-N Electrical Substations, 119-N Exhaust and 119-N Stack Air Monitoring Buildings, 1313-N Change Control Building, and 181-NC Sample Stack*, IOM 122923, dated November 10, 2005, Washington Closure Hanford, Richland, Washington.

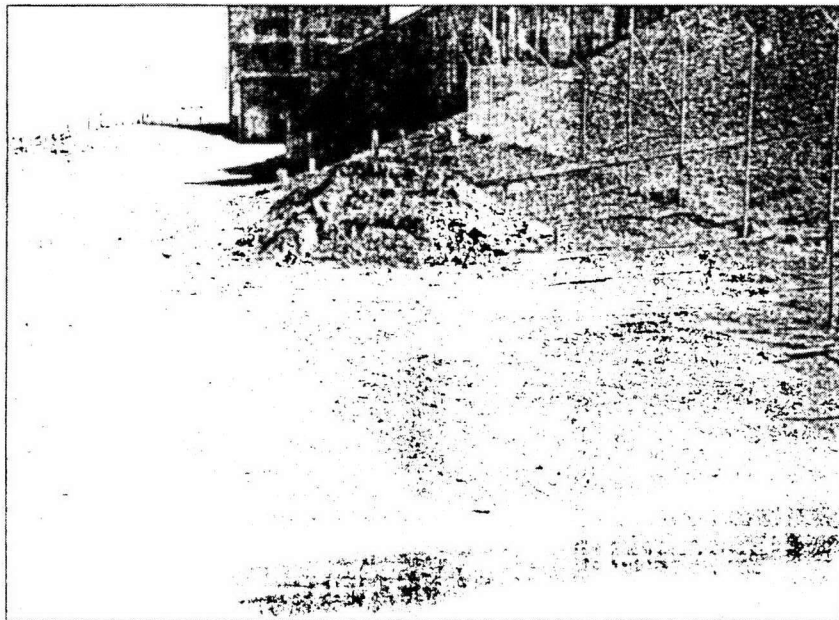
WCH, 2006, *Asbestos Summary Report for 119-N, 119-NA, 181-NC, and 1313-N*, IOM dated 2/28/06, CCN# 125296, Richland, WA.

**Post Demolition Summary Report for the 181-NC River Water Sample Shack  
April 2006**

**Figure 1  
181-N River Water Sample Shack Before Demo**



**Figure 2  
181-N River Water Sample Shack After Demo**





**Post Demolition Summary Report for the 181-NC River Water Sample Shack**  
**April 2006**

**Attachment 1**

**Summary of Analytical Results**

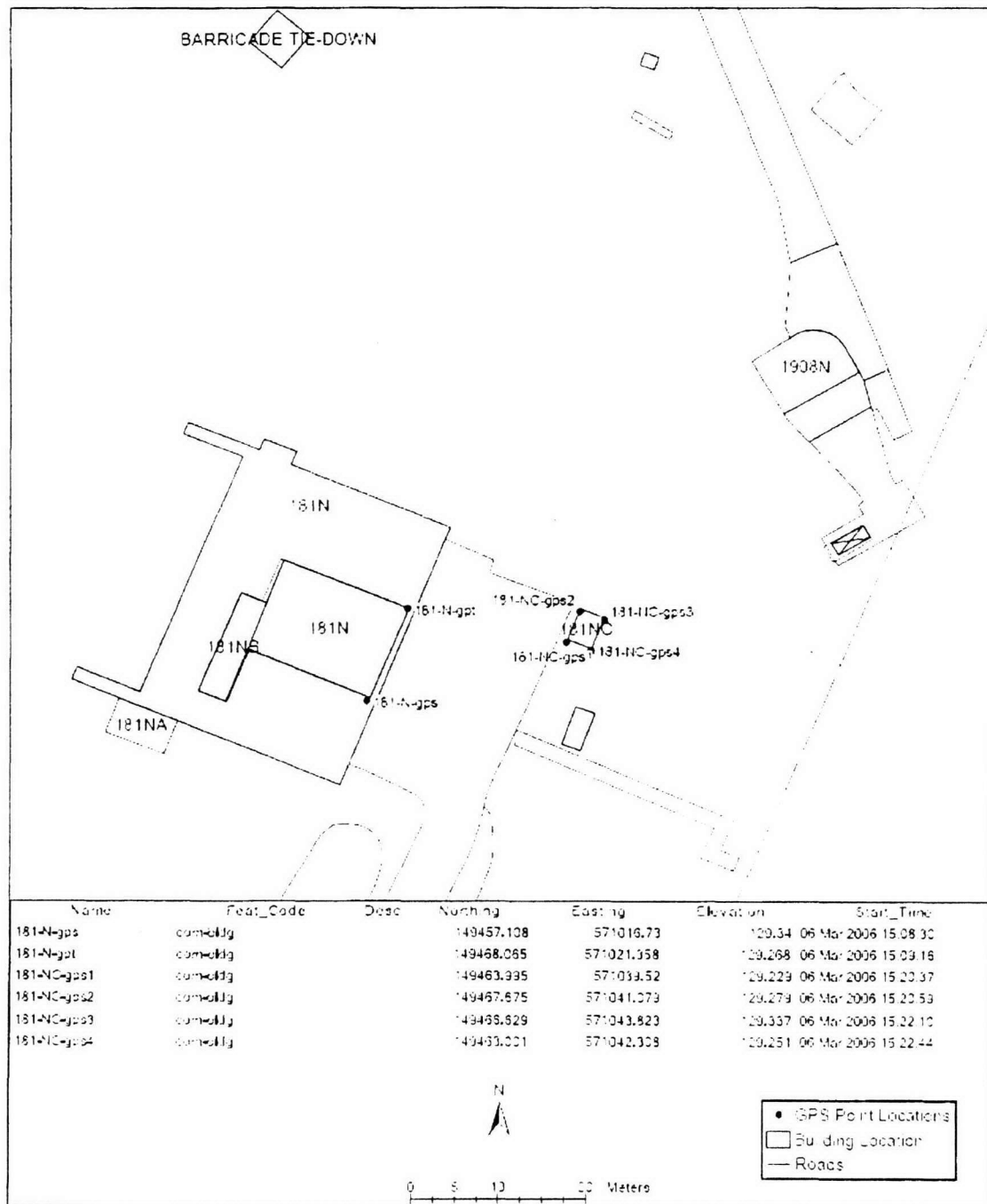
HEIS #	Sample Date	Logbook	Logbook Page	Location	Location Detail	Comments	Lab ID	Asbestos %
J10F70	1-Nov-2005	EL-1516-7	100	181-NC	insulation on walls and ceiling	yellow, fibrous insulation, silver vapor barrier paper on one side	05-38739	ND
J10F71	1-Nov-2005	EL-1516-7	100	181-NC	insulation on walls and ceiling	yellow, fibrous insulation, silver vapor barrier paper on one side	05-38740	ND
J10F72	1-Nov-2005	EL-1516-7	100	181-NC	insulation on walls and ceiling	yellow, fibrous insulation, silver vapor barrier paper on one side	05-38741	ND

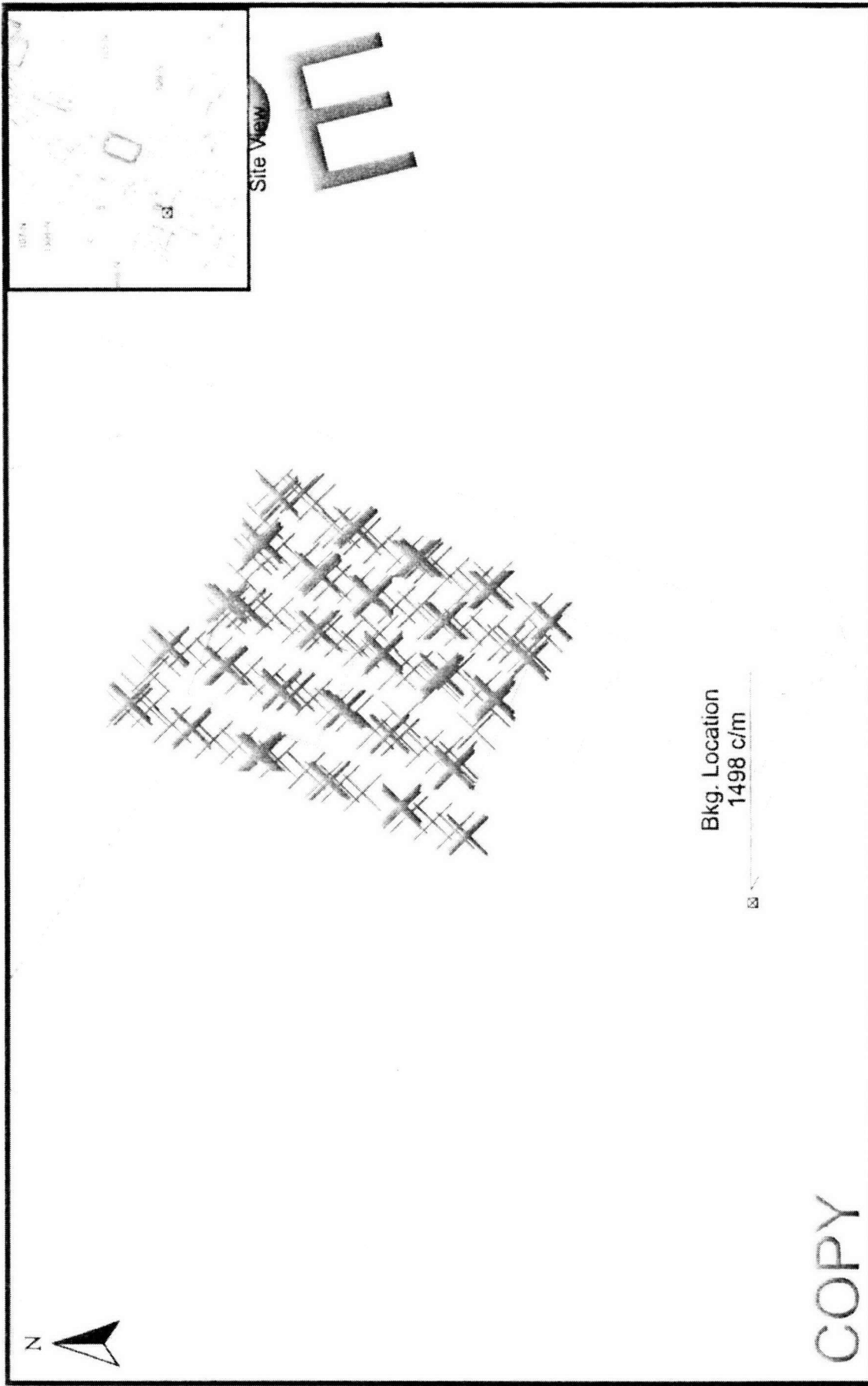
**Post Demolition Summary Report for the 181-NC River Water Sample  
Shack  
April 2006**

**Attachment 2**

**Civil Survey**

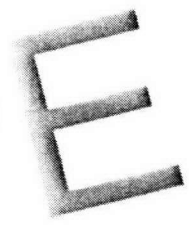
# Post Demolition Summary Report for the 181-NC River Water Sample Shack April 2006





100N  
1300-14

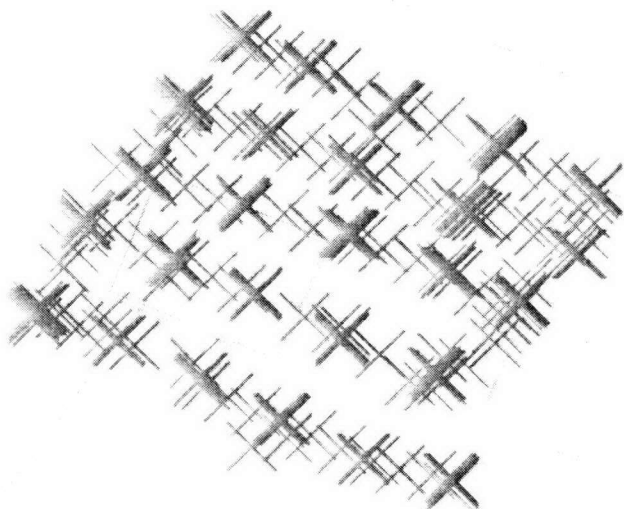
Site View



Bkg. Location  
1498 c/m

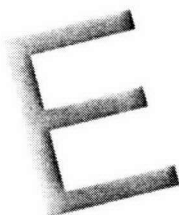
COPY

<p><b>100N D4 Remedial Action 181-NC GPERS Radiological Survey Gamma Track Map</b></p>	<p><b>Summary Statistics</b></p> <p>Coverage File: N086G Number of Data Pnts: 419 Type of Survey: 'Gamma' Max GCPM: 2173 Avg Bkg CPM: 1498 Survey Date: 03/27/2006 Area Surveyed: 86 m2 Project File: N086G Pdf File: ESRFRM060057C</p>	<p><b>Legend</b></p> <p>CPM</p> <ul style="list-style-type: none"> <li>&lt; 2996</li> <li>2996 - 5k</li> <li>5k - 10k</li> <li>10k - 25k</li> <li>&gt; 25k</li> </ul>
<p><b>Scale</b></p> <p>2 0 2 4 Meters</p>	<p><b>EBERLINE SERVICES HANFORD, INC.</b></p> <p><i>Survey Map Prepared By: Marc Wenzling - ESI</i></p>	



Bkg. Location  
444 c/m

Site View



COPY

Legend

CPM

- < 800
- 800 - 1k
- 1k - 1.5k
- 1.5k - 2k
- > 2k

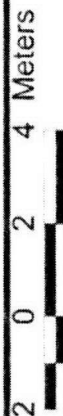
Summary Statistics

Coverage File: N086B  
Number of Data Pnts: 396  
Type of Survey: 'Beta'  
Max GCPM: 690  
Avg Bkg CPM: 444  
Survey Date: 03/27/2006  
Area Surveyed: 86 m<sup>2</sup>  
Project File: N086B  
Pdf File: ESRFRM060056C

100N D4 Remedial Action

181-NC

GPERS Radiological Survey  
Beta Track Map



EBERLINE  
SERVICES  
HANFORD, INC.

Survey Map Prepared By: Marc Wendling - ESI

## FACILITY STATUS CHANGE FORM

**DISTRIBUTION:**

EPA: Dennis Faulk, B1-46  
Ecology: Rick Bond, H0-57  
DOE: Rudy Guercia, A3-04  
Document Control, H0-30  
Administrative Record, H6-08

SIS Coordinator: Benjamin Cowin, H4-22  
D4 EPL: Clay McCurley, X5-50  
Sample Design/Cleanup Verification: Megan Proctor, H4-22  
FR Engineering: Rich Carlson, N3-30  
FR EPL: Dan Saueressig, N3-30

